

16 Feb. 2010

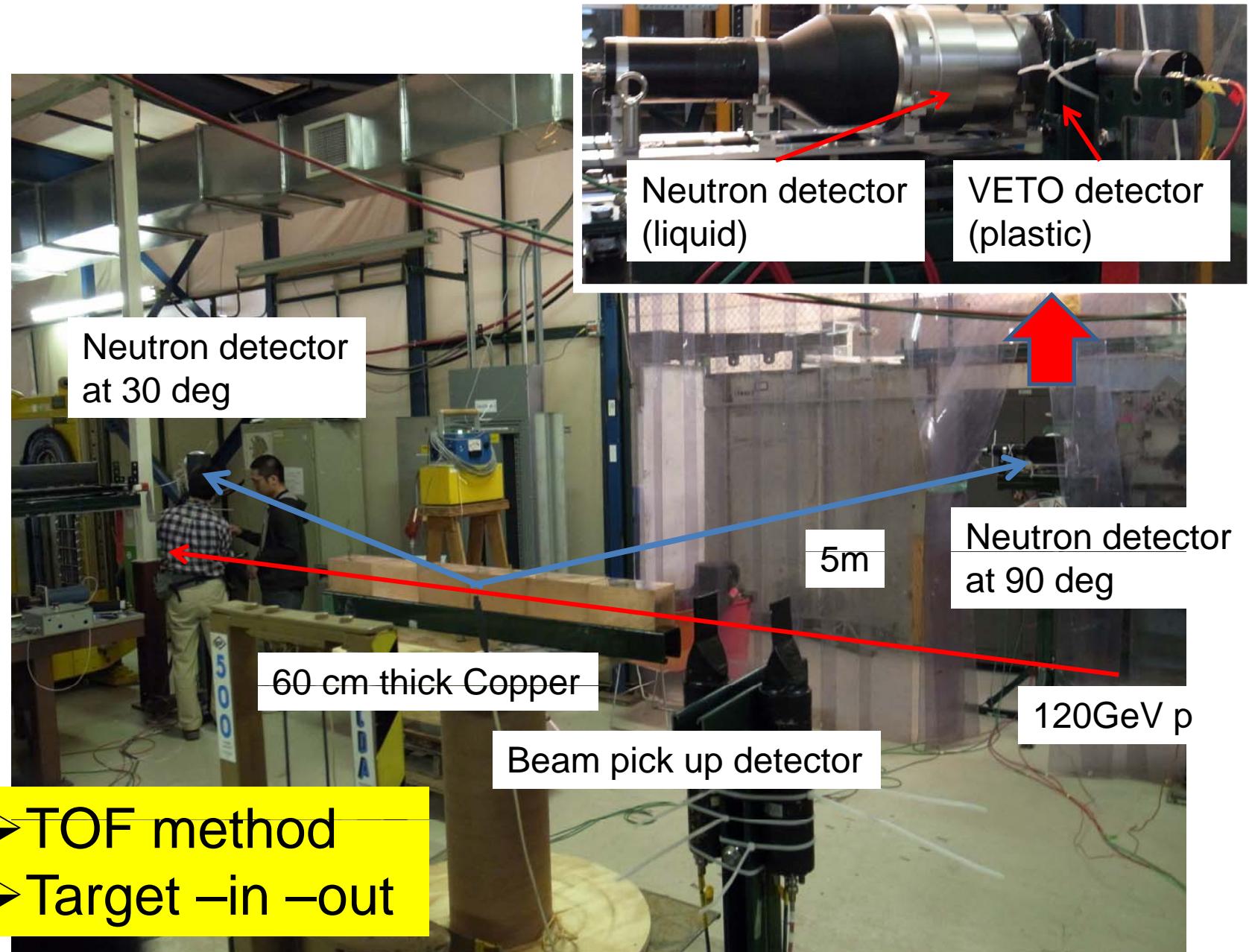
JASMIN in MTest

Yosuke Iwamoto and Hiroshi Yashima
on behalf of JASMIN collaboration

Experiments

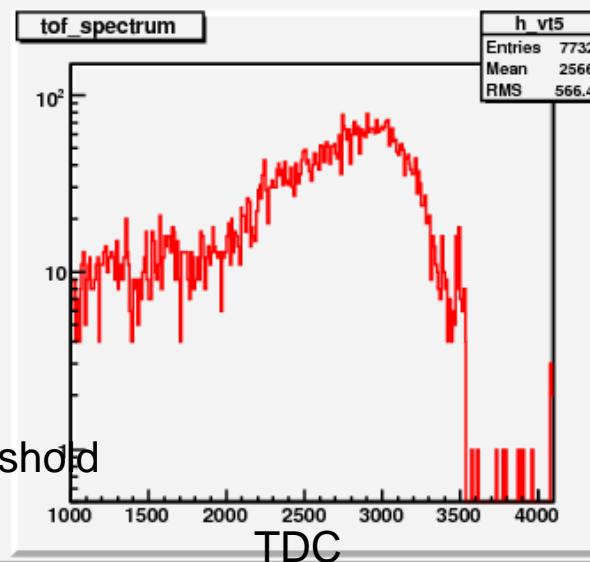
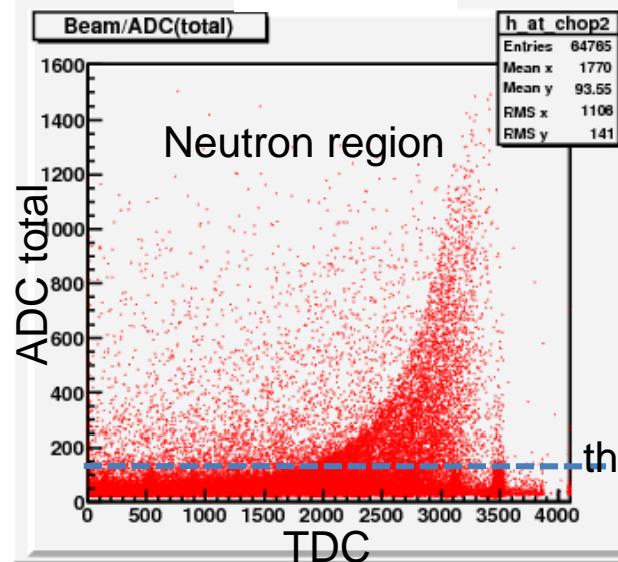
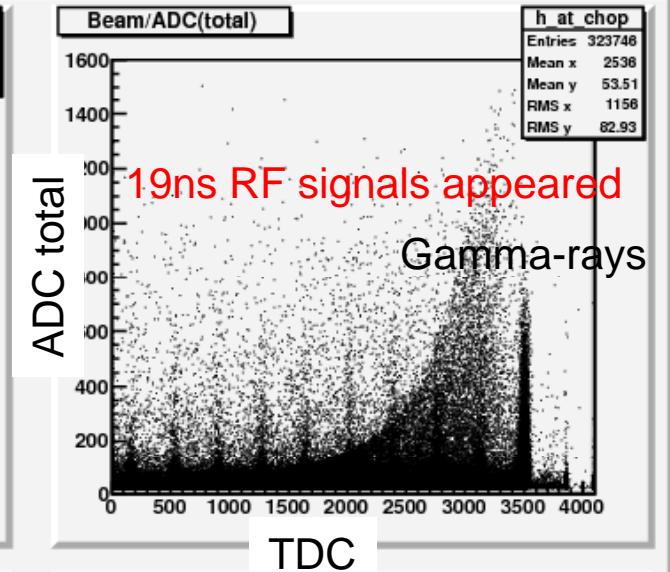
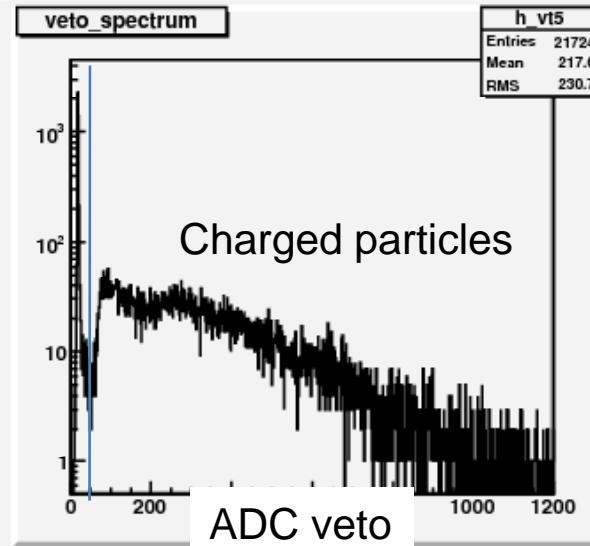
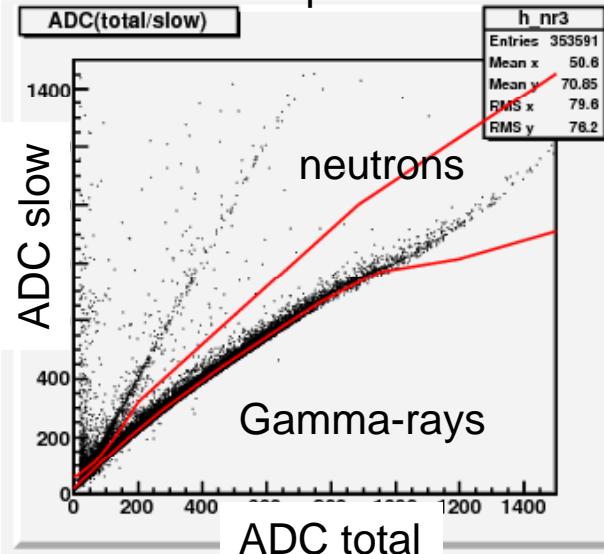
- MT6-2
 - Neutron energy spectra at 30° and 90° for 120-GeV proton on Cu
- MT1
 - Activation, mass yield for 120 GeV proton

MT6 -2



Data analysis of 90° data

Pulse shape discrimination



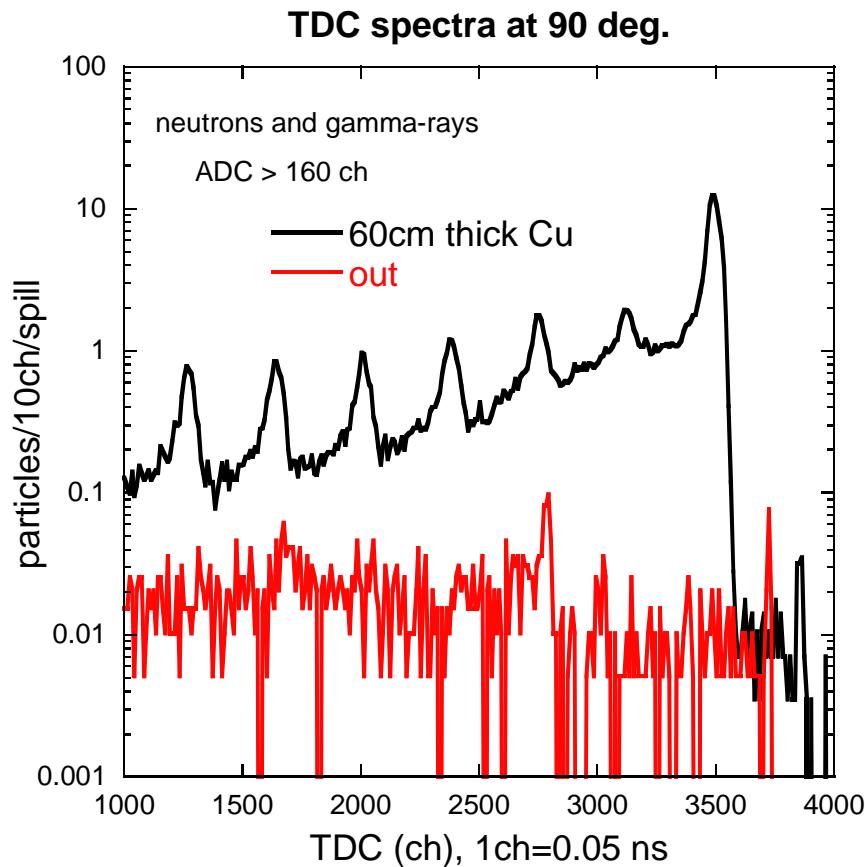
- About 25 neutrons/spill
($>\sim 10$ MeV)

- Low background



Possible to measure
neutron energy spectra

Target out measurement



-Target out events under 2800 ch may come from the detector near the dump.

Summary

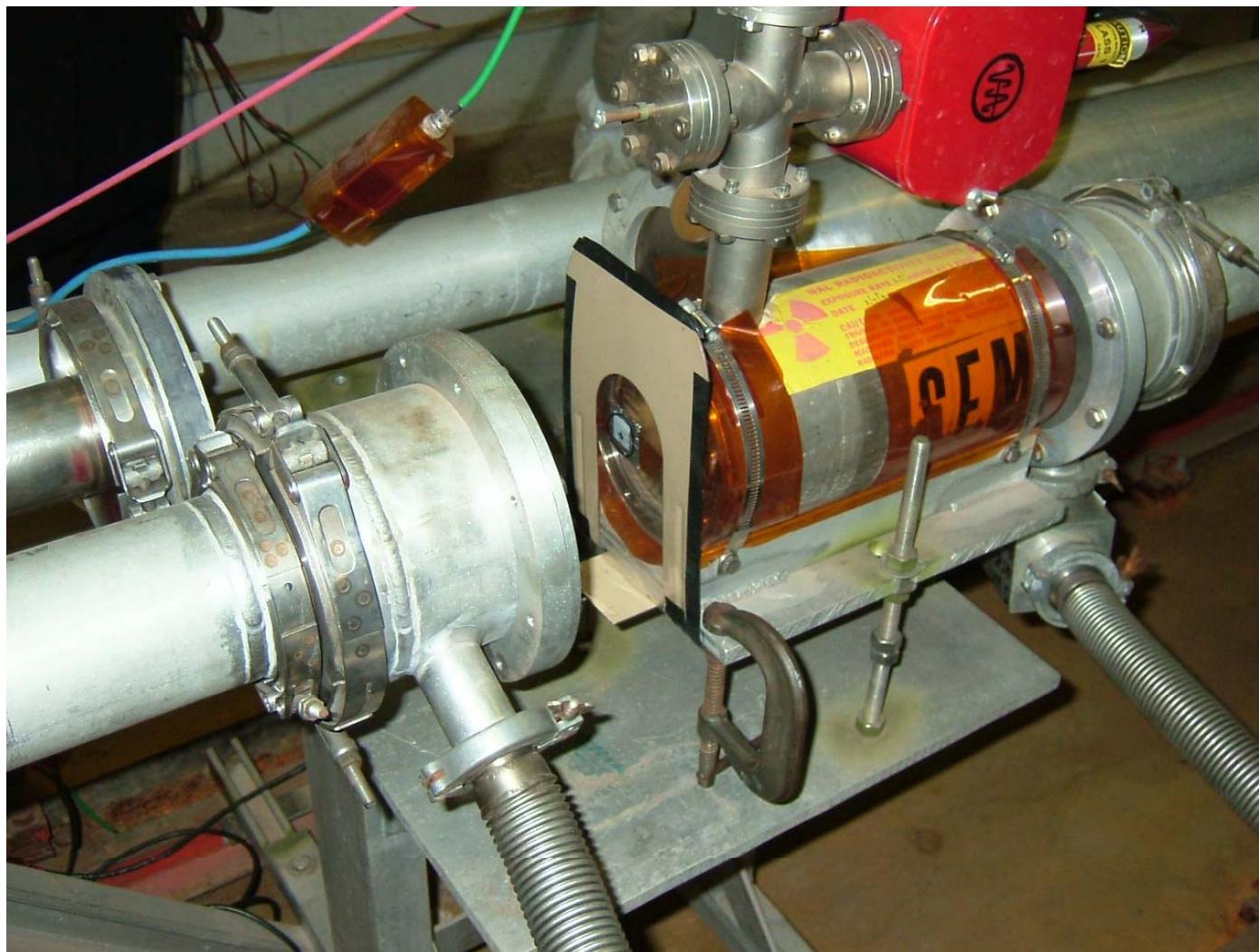
- Test measurements of neutron energy spectrum at MT6-2.
- Possible to measure neutron data.
- 19ns width RF signals should be removed by analysis.
- required time of next experiments should be estimated.

Spare slides

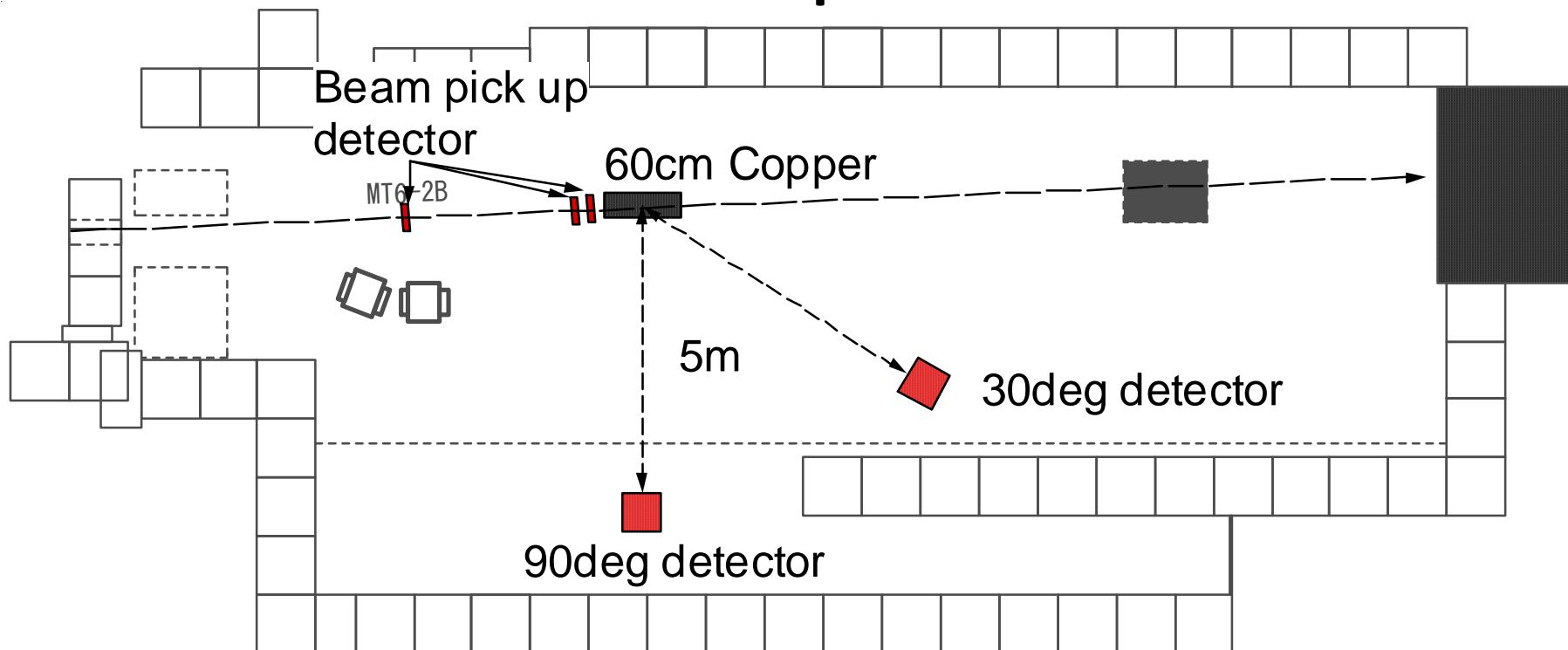
Beam spot check on MT1



Sample irradiation on MT1



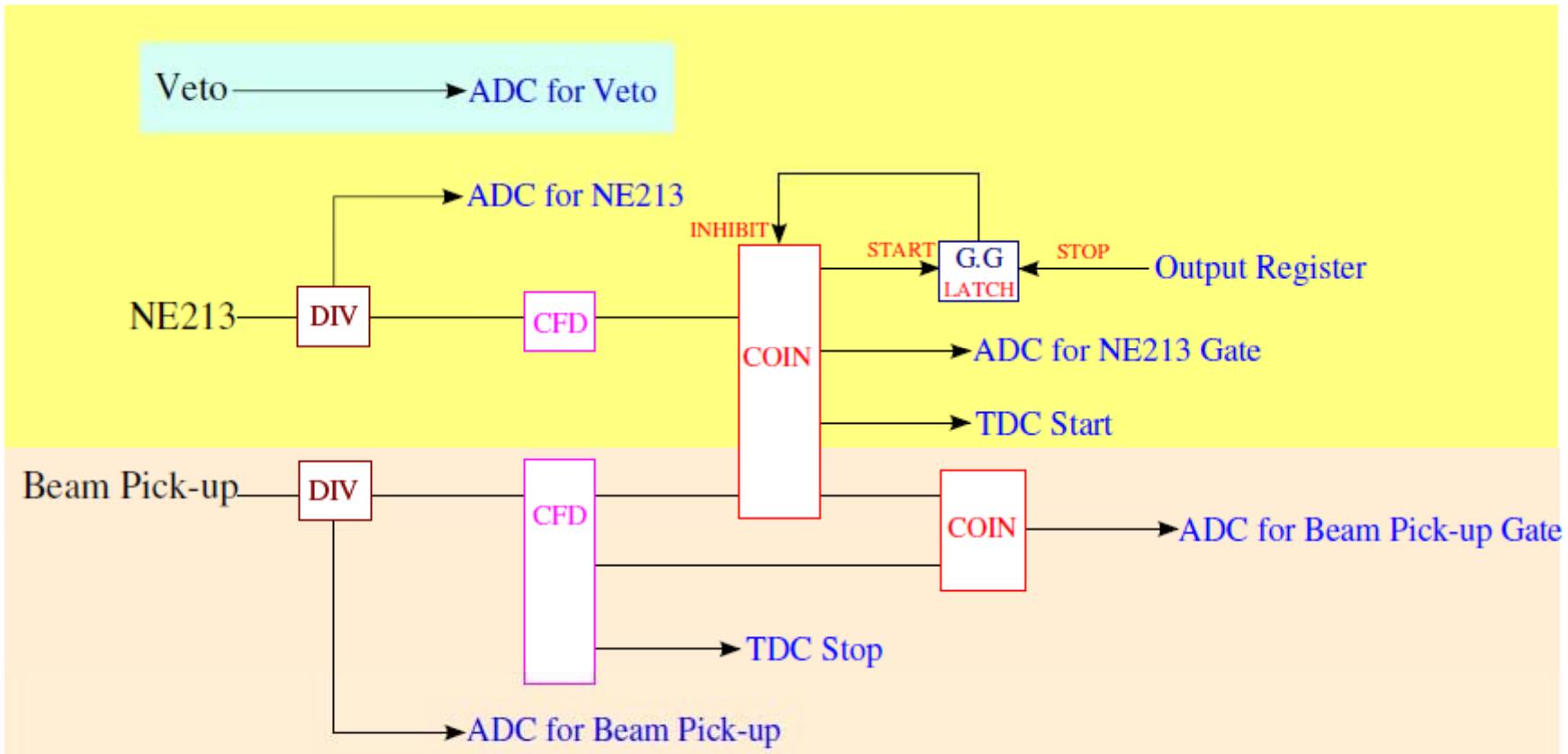
MT6 experiment



- TOF method
- Target –in –out

MT6 experiment

- Electronics



DIV : Divider

CFD : Constant Fraction Discriminator

COIN : Coincidence

G.G. : Gate Generator